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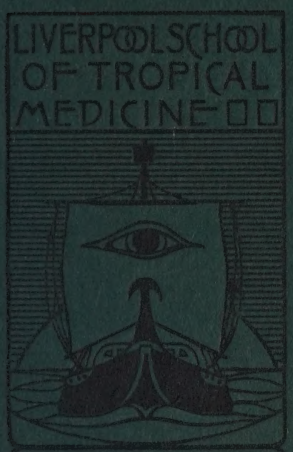

ANNALS

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Studies in the Treatment of Malaria

XX—Intramuscular Injections of Collosol Manganese in Simple Tertian Malaria

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STUDIES IN THE TREATMENT OF MALARIA

XX. INTRAMUSCULAR INJECTIONS OF COLLOSOL MANGANESE IN SIMPLE TERTIAN MALARIA

BY

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From the Liverpool School of Tropical Medicine

Undertaken at the request of the War Office

(*Received for publication* 5 *October*, 1918)

This preparation, supplied to us by the Crookes' Laboratories, was tried in fifteen cases.

The drug was injected intramuscularly, 1 c.c. on each of two consecutive days in fourteen cases (1171-1184) and 1 c.c. on each of three consecutive days in one case (1185). All the cases were adult males, infected either in Macedonia, East Africa or Egypt. In each instance a diagnosis of simple tertian malaria was made microscopically, and in all cases parasites were present in the blood on the day treatment commenced. Blood examinations were made daily.

The results are given in the Table, which also contains the following additional information:—Place of infection and interval in

TABLE

Parasitic records after intramuscular injections of Collosol manganese in simple tertian malaria.

† E. = Egypt. E.A. = East Africa. S. = Salonika.

Number of case	†Place of infection	Interval (in months) between first admission to a hospital with malaria and present treatment	Interval (in months) between leaving infected area and present treatment	Interval (in months) between arrival in England and present treatment	Date of end of treatment	Day of first injection	1st day after	2nd day after	3rd day after	4th day after	5th day after	6th day after	7th day after	8th day after	9th day after	10th day after	11th day after	12th day after
1171	S.	24	4	4	27.9.18	T.G.*	T.G.*	T.G.	T.G.	T.G.	T.G.	T.	G.	Neg.	T.	T.G.	T.G.	Neg.
1172	S.	13	3	2	27.9.18	T.G.*	T.G.*	T.G.	T.	T.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	T.
1173	S.	24	5	4	27.9.18	T.*	T*	G.	T.	T.G.	T.	T.G.	T.G.	T.	T.	Neg.	Neg.	G.
1174	E.A.	26	19	15	27.9.18	T.*	Neg.*	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
1175	S.	15	3	3	27.9.18	T.*	T.*	T.	Neg.	Neg.	T.	T.	T.	T.	T.	T.	Neg.	Neg.
1176	S.	26	4	4	27.9.18	T.*	G.*	T.	T.G.	T.	T.	T.G.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.
1177	S.	13	6	6	27.9.18	T.*	T.G.*	T.G.	T.G.	T.	T.G.	T.	T.	T.	T.	Neg.	T.	T.
1178	E.	37	4	3	27.9.18	G.*	Neg.*	G.	T.	T.	T.	T.	T.G.	T.G.	T.G.	T.G.	Neg.	Neg.
1179	S.	14	8	7	27.9.18	T.*	Neg.*	Neg.	Neg.	Neg.	Neg.	G.	G.	G.	T.G.	T.G.	...	...
1180	S.	10	4	3	27.9.18	T.G.*	T.G.*	T.G.	T.G.	T.G.	T.G.	T.G.	...	...	...	...	...	...
1181	S.	23	6	6	27.9.18	T.G.*	T.G.*	T.G.	T.G.	G.	...	...	...	...	...	...	...	T.
1182	S.	15	4	4	27.9.18	T.*	Neg.*	T.	Neg.	Neg.	Neg.	Neg.	Neg.	Neg.	T.G.	Neg.	Neg.	T.
1183	S.	14	4	3	27.9.18	T.G.*	T.G.*	G.	T.G.	G.	Neg.	G.	T.	G.	Neg.	Neg.	Neg.	T.
1184	E.A.	10	7	3	27.9.18	T.G.*	T.G.*	T.G.	T.	T.G.	T.	T.G.	T.G.	T.G.	G.	T.G.	...	...
1185	S.	24	4	3	27.9.18	T.G.*	T.G.*	T.G.*	T.G.	Neg.	T.G.	T.G.	T.G.	T.G.	T.G.	T.G.	Neg.	T.G.

months between present treatment and (*a*) first admission to a hospital for malaria, (*b*) leaving infected area, (*c*) arrival in England.

In the Table:—

T. = simple tertian trophozoites or schizonts.
G. = simple tertian gametes.
Neg. = no parasites found.
* = intramuscular injection of 1 c.c. of collosol manganese.

CONCLUSION

Collosol manganese in the doses used is of no value in the treatment of simple tertian malaria.

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References to authors in the text must be made in the following way :— 'According to Smith (1900) the spleen is enlarged, but Robinson (1914) says the reverse.' The references should be collected in alphabetical order of authors' surnames at the end of the paper, and arranged in the following way :—

Robinson, S. (1914). 'The spleen in malaria.' *Annals of Nosology*, Vol. XX, pp. 20-25.

Smith, J. (1900). 'Enlargement of the spleen in malaria.' *Journal of Pathometry*, Vol. I, pp. 1-20.

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